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said intensity signals each having a portion substantially dependent on the blood oxygen saturation and a portion substantially dependent upon the pulse in the body tissue;

adaptively filtering said intensity signals with a multiple notch filter, said multiple notch filter attenuating selected frequencies in said signals; calculating oxygen saturation based upon the result of said filtering.

63. The method of Claim 62, wherein said step of calculating comprises the step of generating a plurality of values for oxygen saturation based upon said physiological signals and scanning said plurality of values to find at least one value indicative of said blood oxygen saturation.

64. The method of Claim 63, wherein said selection is based upon expectations about said physiological parameter and expectations about said signal.

Respectfully submitted,

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